

= 265598 OXIDE#  
L2 1201 TRANSITION METAL OXIDE#  
(TRANSITION(W)METAL(W)OXIDE#)

=> s 11 (P) L2  
L3 3 L1 (P) L2

=> d 13 ti ab ccls 1-3

US PAT NO: 5,160,712 [IMAGE AVAILABLE] L3: 1 of 3  
TITLE: Lithium transition metal oxide

ABSTRACT:

The invention provides an essentially layered lithium transition metal oxide compound and a method of making it. It comprises lithium cations, transition metal cations T and oxygen anions, the transition metal cations T having an average valency of from +3 to +4. It has its O anions arranged in layers in a substantially cubic-close-packed arrangement, with its Li cations being arranged in layers and its T cations occupying octahedral sites and being arranged in layers. Each layer of the Li cations is sandwiched between two layers of the O anions and each said layer of O anions is sandwiched between a said layer of Li cations and a layer of the T cations. 75%-99.8% of the T cations in the compound are located in the layers of T cations, and the remainder of the T cations are located in the layers of Li cations, the T cations being selected from Co cations and mixtures of Co and Ni cations.

US-CL-CURRENT: 423/138; 429/218

US PAT NO: 4,030,903 [IMAGE AVAILABLE] L3: 2 of 3  
TITLE: Exuded transition metal films on glass-ceramic articles

ABSTRACT:

Suitable glass-ceramic base compositions, including some silicates, aluminosilicates, lithium aluminosilicates, and borosilicates, are modified by the addition of suitable quantities of transition metal oxides prior to melting and forming into thermally-crystallizable glass articles. Appropriate crystallization and post-crystallization heat treatments are thereafter employed to cause crystallization of the articles and the formation and growth of films thereon, which films are characterized by the presence of transition metal compounds, typically of spinel structure, therein. Such films demonstrate useful electrical, magnetic, catalytic and/or light-absorptive properties.

US-CL-CURRENT: 65/32.4, 30.1, 33.7, 33.8, 33.9, 60.53, 60.8; 252/62.56;  
501/2, 4, 5, 7, 8, 10; 502/204, 207, 241, 242, 243, 247,  
256, 258

US PAT NO: 3,962,514 [IMAGE AVAILABLE] L3: 3 of 3  
TITLE: Exuded transition metal spinel films on glass-ceramic articles

ABSTRACT:

Suitable glass-ceramic base compositions, including some silicates, aluminosilicates, lithium aluminosilicates, and borosilicates, are modified by the addition of suitable quantities of transition metal oxides prior to melting and forming into thermally-crystallizable glass articles. Appropriate crystallization and post-crystallization heat treatments are thereafter employed to cause crystallization of the articles and the formation and growth of films thereon, which films are characterized by the presence of transition metal compounds of spinel structure therein. Such films demonstrate useful electrical, magnetic, catalytic and/or light-absorptive properties.

US-CL-CURRENT: 428/334; 65/30.1, 33.7, 33.8; 428/410, 426, 432, 701;  
501/7, 8, 10, 57, 59, 63

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